## World's smallest Blu-ray Disc™ notebook

### MOBILE PC PERFORMANCE

Enjoy the performance of Intel® Centrino® 2 processor technology with Intel® Core™ 2 Duo processors SU9600-SU9400 (1.60GHz[1]-1.40GHz[1]) with 3MB of L2 cache and up to 4GB of pre-installed system memory.

The VAIO® TT Configure-to-Order notebook comes pre-installed with your selection of Genuine Microsoft® Windows Vista® Ultimate 64-bit[19], Business 32-bit or Home Premium 64-bit[19]. An XP PRO downgrade disk is available for both Windows Vista® Ultimate and Windows Vista® Business (depending on configuration).

For faster read / write times and greater durability, enjoy an optional 256GB[2] (128GB[2] x 2) solid state drive witih RAID technology (depending on configuration).

11.1"[5] display with XBRITE-DuraView™ technology with LED backlight for a brighter LCD with 100% color saturation and scratch-resistant coating.

### ULTRAPORTABLE ELEGANT DESIGN

Thin and lightweight, weighing in at only 2.87 lbs[8].

The VAIO® TT notebook is available in a Premium Carbon Fiber Black Casing, a Sony Style exclusive, Champagne Gold, Alpine White or Silk Black.

Active Noise Canceling technology and supplied headphones provide crystal-clear audio in noisy mobile scenarios.

### HD ENTERTAINMENT

Enjoy HD movies on the world's smallest Blu-ray Disc™ notebook[16] (Depending on configuration).

Record 25-50GB of data and HD content to a single Blu-ray Disc™ media[17] (Depending on configuration).

HDMI™ output provides single-cable full 1080p HD connectivity to a compatible HDTV[14] (HDMI™ cable sold separately).

### WIRELESS FREEDOM

Offering a massive boost in wireless connection speed and range with 802.11n integrated wireless LAN technology[3].

Stereo A2DP Bluetooth® technology[14] for wirelessly connecting to useful peripherals and streaming CD-quality audio.

The ultraportable VAIO® TT notebook establishes a new grade in mobility with its thin-and-light design and carbon fiber exterior. What's more, this PC with a stunning 11.1"[5] LCD offers industry-leading mobile performance, balancing the power of Intel® Centrino® 2 processor technology and optional Blu-ray Disc™ playback[16] and recording[17] and a host of energy-conserving features that deliver maximum battery life.

# VGN-TT290 Configure-to-Order

VAIO® TT Notebook Configure-to-Order PC

## Specifications

### General

Computer Type: Notebook

Type of Use: Ultra-portable

Action Buttons: Mute, Volume - / +, S1, Eject, WLAN / Bluetooth® on / off

Pointing Device: Electro-static touch pad

Security: Biometric Fingerprint Sensor
Trusted Platform Module (TPM) TCG Ver.1.2 compliant

### Hardware

Keyboard: QWERTY, 82 keys, 17mm pitch, 2mm stroke

Camera: Built-in MOTION EYE® camera and microphone

### Processor

Type: Intel® Core™ 2 Duo Processor SU9600 (Configuration 1) or Intel® Core™ 2 Duo Processor SU9400 (Configuration 2)

Speed: 1.60 GHz[1] (Configuration 1) or 1.40 GHz[1] (Configuration 2)

Front Side Bus Speed: 800MHz

L2 Cache: 3MB

Technology: Intel® Centrino® 2 processor technology

### Memory

Type: DDR3

Installed: 4GB[15] PC3-6400 (2GBx2), 3GB PC3-6400 (2GBx1 +1GBx1) or 2GB PC3-6400 (2GBx1)

Maximum: 4GB[15]

Speed: 800MHz

### Hard Drive

Capacity: Optional 250GB[2], 160GB[2] or 120GB[2] (Available depending on configuration)

Speed: 5400rpm

Interface: Serial ATA

### Optical Drive

BD-ROM Read: 2x max. (Blu-ray Disc™ only)

Blu-ray Disc™ Support: Optional Read[16] / Write[17] (BD-R / -RE / -ROM) - Blu-ray Disc™ optical drive only available with 4GB RAM configuration.

CD Support: Read / Write (CD / -R / -RW)

DVD Support: Read / Write (DVD±R / ±RW / ±R DL / -RAM) or Read / Write (DVD±R / ±RW / -RAM) w/ Blu-ray Disc™ configuration

BD-R DL Read / Write: 1x max. (Blu-ray Disc™ only)

BD-R Read / Write: 2x max. (Blu-ray Disc™ only)

BD-RE DL Read / Write: 1x max. (Blu-ray Disc™ only)

BD-RE Read / Write: 2x max. (Blu-ray Disc™ only)

### Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ (Standard / Duo) media slot with MagicGate® functionality
One ExpressCard® / 34 media slot
One Secure Digital (SD™ memory card) media slot

### Solid State Drive

Capacity: Optional 256GB[2] (128GB[2] x 2 w / RAID), 128GB[2] or 64GB[2]

Interface: Serial ATA

### Audio

Sound System: Intel® High Definition Audio

### Display

Screen Size: 11.1"[5]

Resolution: 1366 x 768

XBRITE-DuraView™ Technology: Yes

Back Light Technology: LED

### Graphics

Processor: Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology
Total Available Graphics Memory: 1750MB (max.)[9] (with 4GB RAM configuration and Windows Vista® Ultimate 64-bit or Windows Vista® Home Premium 64-bit)
Total Available Graphics Memory: 1300MB (max.)[9] (with 3GB-4GB RAM configuration and Windows Vista® Business 32-bit or 3GB RAM configuration and Windows Vista® Ultimate 64-bit or Windows Vista® Home Premium 64-bit)
Total Available Graphics Memory: 790MB (max.)[9] (with 2GB RAM configuration and Windows Vista® Business 32-bit, Vista® Ultimate 64-bit or Windows Vista® Home Premium 64-bit)

Chipset: Mobile Intel® GS45 Express Chipset

Max. External Resolution via VGA: 1920 x 1200

Max. External Display Resolution via HDMI™ : 1920 x 1080

Max. External Resolution via DVI: 1920 x 1200

### Inputs and Outputs

Microphone Input: 1

Port Replicator Connector(s): 1 (Bottom)

USB Port(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[8]

Headphone Output(s): 1

Ethernet Connection (s): 1

HDMI™ Output: 1[4]

### Networking / Modem

Ethernet Protocol: 10Base-T / 100Base-TX / 1000Base-T (Gigabit)

Ethernet Speed: Fast Ethernet (RJ-45)

Wireless LAN: Intel® WiFi Link 5100AGN (802.11a / b / g / n)[3]

Wireless WAN: Integrated Mobile Broadband Service[18]

Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology (2.1+EDR)[24]

### Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS14) or Large Capacity Lithium-ion Battery (VGP-BPL14). Available in black or silver depending on color configuration.

Estimated Battery Life: 4.5 to 7.5 hours[3] Standard Capacity Battery
6.5 to 12.0 hours[3] Large Capacity Battery

Power Requirements: 68W + 10%

Input Voltage: 100-240V

### Software

Operating System: Genuine Microsoft® Windows Vista® Ultimate 64-bit[19] with XP PRO downgrade disk, Windows Vista® Business 32-bit with XP PRO downgrade disk or Windows Vista® Home Premium 64-bit[19]
*XP PRO downgrade not available with Blu-ray Disc™ configurations or Solid State Drive with RAID technology configurations

Supplied Software: Microsoft® Works SE 9.0 w / 60-Day Trial Version of Microsoft® Office Home and Student 2007[12] (with Windows Vista® Ultimate or Windows Vistas® Home Premium) or Small Business 2007 (with Windows Vista® Business)

VAIO® Multimedia Suite: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Anti-Virus & Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version[23]

### Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24 / 7[11].

Online and Email Support: Support available from http: / / www.esupport.sony.com / EN / VAIO

Limited Warranty Term: 1 year limited warranty[10]. See actual warranty for details.

International Service: 1 year international service plan available. Registration required. See www.sony.com / IRSP for details.

### Environmental Information

EPEAT™ : Gold

RoHS®: Compliant
For more information: www.sony.com / vaioeco

ENERGY STAR®: 4.0

### Dimensions

Weight: 2.87 lbs.[7]

Measurements: 10.99"(W) x 0.93"(H) x 7.87"(D)[6,7]

### Supplied Accessories

Noise-Canceling Headphones

Power Cord

AC Adapter (VGP-AC16V13)

Standard Capacity Lithium-ion Battery (VGP-BPS14) or Large Capacity Lithium-ion Battery (VGP-BPL14)

### Optional Accessories

Stick AC Adapter (VGP-AC16V10)

Port Replicator (VGP-PRTT1)

Leather Notebook Cover (VGP-CVTT1)

Neoprene Case (VGP-AMC6)

Bluetooth® Laser Mouse[14] (VGP-BMS33 / B)

Bluetooth® Laser Mouse[14] (VGP-BMS33 / R)

Bluetooth® Laser Mouse[14] (VGP-BMS33 / NJ)

Bluetooth® Presentation Controller[14] (VGP-BRMP10)

USB Portable Speaker (VGP-USP1)

Privacy Filter (VGP-FL13)

Color: Alpine White, Champagne Gold, Premium Carbon Fiber Black, Silk Black

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
5. Viewable area measured diagonally.
6. Non-metric weights and measures are approximate and may vary.
7. Measured at the narrowest point.
8. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
9. Total Available Graphics Memory refers to the new Windows Vista® classification of graphics memory, which is the total of Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition, driver software version and system memory size.
10. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.esupport.sony.com, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
11. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
12. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
13. Microsoft® Windows Live™ OneCare™ Trial Version - This trial software will work for ninety (90) days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 90-day trial period, you must buy a subscription. You can subscribe online by following the conversion instructions presented during setup and paying the required fees.
14. Interoperability and compatibility among Bluetooth® devices vary.
15. A portion of the system memory over 3GB may not be available to the operating system in a 32-bit environment.
16. Certain circumstances may limit / prevent Blu-ray Disc™ media playback. For optimal performance, download all updates from http: / / esupport.sony.com / EN / DRIVERS.
17. Video recording to Blu-ray Disc™ media is done in MPEG2 and AVC formats only.
18. Subscription with a third party carrier is required. Service activation and other fees apply. Terms & Conditions and additional restrictions apply.
19. Compatibility and performance in a 64-bit environment may vary. Check with the manufacturer of your software or accessory to ensure you have the latest updates.

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and / or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
©2008 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, i.LINK, VAIO, XBRITE-DuraView, Sony logo, VAIO logo, Memory Stick PRO and MagicGate are trademarks of Sony in the U.S. and in other countries. Intel, Centrino and Core are trademarks of the Intel Corporation in the U.S. and in other countries. Microsoft, Windows Live, OneCare and Windows Vista are registered trademarks of the Microsoft Corporation in the U.S. and in other countries. Blu-ray Disc™ is a trademark. Bluetooth and the Bluetooth logo are trademarks of SIG, Inc. ENERGY STAR is a registered US mark. All other trademarks are trademarks of their respective owners.
Printed 09 / 08.